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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,254	02/12/2002	Alain Rossmann	SS-004	8579
33708	7590 11/05/2004		EXAMINER	
DEIDRE PAKNAD			BACKER, FIRMIN	
PSS SYTEMS, INC. 2471 EAST BAYSHORE ROAD SUITE 600- PALO ALTO, CA 94303			ART UNIT	PAPER NUMBER
,	· ·		3621	
			DATE MAILED: 11/05/200-	4 .

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	N				
	10/076,254	ALAIN ET AL.	1				
Office Action Summary	Examiner	Art Unit					
)	Firmin Backer	3621					
The MAILING DATE of this communication app Period for Reply	ears on the cover sh	eet with the correspondence address -					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, y within the statutory minimur vill apply and will expire SIX (, cause the application to bec	may a reply be timely filed n of thirty (30) days will be considered timely. 6) MONTHS from the mailing date of this communications abandoned (35 U.S.C. § 133).	ation.				
1) Responsive to communication(s) filed on 26 A	A <i>pril 2004</i> .						
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final						
3) Since this application is in condition for allowed closed in accordance with the practice under Disposition of Claims			its is				
4) Claim(s) 1-15,17-62,64-80 and 82-88 is/are pe	ending in the applica	tion.					
4a) Of the above claim(s) is/are withdraw	wn from consideratio	n.					
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-15, 17-62, 64-80, 82-88</u> is/are rejec	ted.	·					
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requireme	nt.					
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accept	oted or b) Dobjected t	o by the Examiner.					
Applicant may not request that any objection to the	- · ·	- · · ·					
11)☐ The proposed drawing correction filed on	- /	<i>,</i> — ,,					
If approved, corrected drawings are required in rep	•						
12)☐ The oath or declaration is objected to by the Ex	aminer.						
Priority under 35 U.S.C. §§ 119 and 120							
13) ☐ Acknowledgment is made of a claim for foreign	n priority under 35 U	S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
Copies of the certified copies of the prior application from the International Bu See the attached detailed Office action for a list	reau (PCT Rule 17.2	?(a)).	-				
14) ☐ Acknowledgment is made of a claim for domesti	•		cation).				
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti	• •	•	·				
Attachment(s)	•						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 No	erview Summary (PTO-413) Paper No(s) tice of Informal Patent Application (PTO-152) er:	_·				

Response to Arguments

1. In view of the appeal brief filed on April 26th, 2004, PROSECUTION IS HEREBY REOPENED. An action is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-15, 17-62, 64-80, 82-88 are rejected under 35 U.S.C. 103(a) as being unpatentable over Venkatachary et al (U.S. PG Pub No. 2004/0215956) in view of Sprague et al (U.S. PG Pub No. 2002/0129235).

As per claim 1, Venkatachary et al teach a method for providing access control 4. management to electronic data, the method comprising establishing a secured link with a client machine when an authentication request is received from the client machine, the authentication request including an identifier identifying a user of the client machine to access the electronic data, wherein the electronic data is secured in a format including security information and an encrypted data portion, the security information including file key and access rules and controlling restrictive access to the encrypted data portion authenticating the user according to the identifier (see paragraphs 0011-0015, 0038, 0063-0069, 0076). Venkatachary fail to teach activating a user key after the user is authenticated, wherein the user key is used to access the access rules in the security information the file key can be retrieved to decrypt the encrypted data portion only if access privileges of the user is successfully measured by the access rules. However, Sprague et al teach an inventive concept of teach activating a user key after the user is authenticated, wherein the user key is used to access the access rules in the security information the file key can be retrieved to decrypt the encrypted data portion only if access privileges of the user is successfully measured by the access rules (see column 6 line 47-63, 14 line 11-29). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Schenk et al's inventive concept to include Sprague et al inventive concept teach activating a user key after the user is authenticated, wherein the user key is used to access the access rules in the security information the file key can be retrieved to decrypt the encrypted data portion only if access privileges of the user is successfully measured by the access rules because this would have ensured the information transmitted, received and/or stored by the system remains secure against unauthorized use and unlawful access.

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As per claim 2, Venkatachary et al teach a method comprising maintaining an access control management, wherein the access control management comprises a rule manager including at least one set of rules for the electronic data; and an administration interface from which the rules for a designated place for the electronic data are created, managed, or updated (see paragraphs 0011-0015, 0038, 0063-0069, 0076).

- 6. As per claim 3, Venkatachary et al teach a method wherein the designated place is a folder and all files in the folder are subject to the rules (see paragraphs 0011-0015, 0038, 0063-0069, 0076).
- 7. As per claim 4, Venkatachary et al teach a method wherein the designated place is a repository and all files in the repository are subject to the rules (see paragraphs 0011-0015, 0038, 0063-0069, 0076).
- 8. As per claim 5, Venkatachary et al teach a method wherein the rule manager provides a graphic user interface from which the rules can be created, managed or updated (see paragraphs 0011-0015, 0038, 0063-0069, 0076).
- 9. As per claim 10, Venkatachary et al teach a method wherein the access control management further comprises a user manager coupled to a database including a list of

authorized users and respective access privileges associated with each of the authorized users (see paragraphs 0011-0015, 0038, 0063-0069, 0076).

- 10. As per claim 11, Venkatachary et al teach a method wherein the authenticating of the user comprises looking up in the database for the user; and getting, from the database, access location information as to where the user is authorized to access the electronic data if information about the user is located in the database (see paragraphs 0011-0015, 0038, 0063-0069, 0076).
- 11. As per claim 12, Venkatachary et al teach a method wherein the identifier further identifiers the client machine; and wherein the authenticating of the user comprises determining, from the access location information, whether the client machine is permitted by the user to access the electronic data (see paragraphs 0011-0015, 0038, 0063-0069, 0076).
- 12. As per claim 13, Venkatachary et al teach a method wherein the access location information pertains to locations or specific client machines from which the user is authorized to access the electronic data (see paragraphs 0011-0015, 0038, 0063-0069, 0076)
- 13. As per claim 14, Venkatachary et al teach a method wherein the user key is in the client machine; and wherein the activating of the user key comprises sending an authentication message to the client machine; and activating the user key with the authentication message (see paragraphs 0011-0015, 0038, 0063-0069, 0076)

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- As per claim 15, Venkatachary et al teach a method wherein the electronic data, when 14. secured, includes a header that further includes the security information being encrypted and a signature signifying that the electronic data is secured (see paragraphs 0011-0015, 0038, 0063-0069, 0076)
- 15. As per claim 17, Venkatachary et al teach a method comprising associating the activated user key with the user locally (see paragraphs 0011-0015, 0038, 0063-0069, 0076)
- 16. As per claim 18, Venkatachary et al teach a method wherein the electronic data, when secured, includes a header that includes the security information being encrypted and a signature signifying that the electronic data is secured; the encrypted security information including the access rules and a file key, and wherein the method further comprises receiving the header from the client machine, decrypting the security information in the header to retrieve the access rules therein; and retrieving the file key when the access rules are measured successfully against access privilege of the user (see paragraphs 0011-0015, 0038, 0063-0069, 0076).
- 17. As per claim 19, Venkatachary et al teach a method further comprising sending the file key to the client machine in which the encrypted data portion can be decrypted with the file key by a cipher module executing in the client machine (see paragraphs 0011-0015, 0038, 0063-0069, 0076).

18. As per claim 20, Venkatachary et al teach a method for providing access control management to electronic data, the method comprising authenticating a user attempting to access the electronic data; maintaining a private key and a public key, both associated with the user, wherein the electronic data, when secured, includes a header and an encrypted data portion, the header further includes security information controlling who, how, when and where the secured electronic data can be accessed and the encrypted data portion is an encrypted version of the electronic data according to a predetermined cipher scheme (see paragraphs 0011-0015, 0038, 0063-0069, 0076). Venkatachary et al fail to teach encrypting the security information with the public key when the electronic data is to be written into a store, and decrypting the security information with the private key when the electronic data is to be accessed by an application. However, Sprague et al teach encrypting the security information with the public key when the electronic data is to be written into a store, and decrypting the security information with the private key when the electronic data is to be accessed by an application (see column 11 lines 9-60, 15 line 23-47). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Schenk et al's inventive concept to include Sprague et al inventive concept encrypting the security information with the public key when the electronic data is to be written into a store, and decrypting the security information with the private key when the electronic data is to be accessed by an application because this would have this would have ensured the information transmitted, received and/or stored by the system remains secure against unauthorized use and unlawful access.

19. As per claim 21, Venkatachary et al teach a method wherein the authentication of the user comprises establishing a link with a client machine from which the user is attempting to access the electronic data, demanding credential information from the user, and receiving the credential information from the client machine over the link (see paragraphs 0011-0015, 0038, 0063-0069, 0076).

- 20. As per claim 22, Venkatachary et al teach a method wherein the credential information includes a pair of username and password provided by the user (see paragraphs 0011-0015, 0038, 0063-0069, 0076).
- 21. As per claim 23, Venkatachary et al teach a method wherein the credential information includes biometric information captured from the user by an apparatus coupled to the client machine (see paragraphs 0011-0015, 0038, 0063-0069, 0076).
- 22. As per claim 24, Venkatachary et al teach a method wherein the encrypting of the security information with the public key comprises receiving access rules and a file key, wherein the file key has been used to produce the encrypted data portion in the client machine, including the access rules and the file key into the security information; and encrypting the security information with the public key (see paragraphs 0011-0015, 0038, 0063-0069, 0076).
- 23. As per claim 25, Venkatachary et al teach a method comprising, generating the header with the security information encrypted therein; and uploading the header to the client machine

where the header is integrated with the encrypted data portion (see paragraphs 0011-0015, 0038, 0063-0069, 0076).

- As per claim 28, Venkatachary et al teach a method wherein the decrypting of the security information with the private key comprises receiving the header from the client machine over the link; parsing the security information from the header; and decrypting the security information with the private key (see paragraphs 0011-0015, 0038, 0063-0069, 0076).
- As per claim 29, Venkatachary et al teach a method further comprising: obtaining access rules from the security information; determining whether the access rules accommodate access privilege of the user, when the determining succeeds, retrieving a file key from the security information; and sending the file key to the client machine over the link when the determining fails, sending an error message to the client machine over the link (see paragraphs 0011-0015, 0038, 0063-0069, 0076).
- As per claim 30, Venkatachary et al teach a method wherein the error message indicates that the user does not have the access privilege to access the electronic data (see paragraphs 0011-0015, 0038, 0063-0069, 0076).
- As per claim 31, Venkatachary et al teach a method for providing access control management to electronic data, the method comprising receiving a request to access the electronic data; determining security nature of the electronic data; when the security nature

indicates that the electronic data is secured, the electronic data including a header and an encrypted data portion, the header including security information controlling restrictive access to the encrypted data portion and the encrypted data portion is an encrypted version of the electronic data according to a predetermined cipher scheme (see paragraphs 0011-0015, 0038, 0063-0069, 0076). Venkatachary et al fail to teach determining from the security information if the user has necessary access privilege to access the encrypted data portion and decrypting the encrypted data portion only after the user is determined to have the necessary access privilege to access the encrypted data portion. However, Sprague et al teach determining from the security information if the user has necessary access privilege to access the encrypted data portion and decrypting the encrypted data portion only after the user is determined to have the necessary access privilege to access the encrypted data portion (see column 11 lines 9-60, 15 line 23-47). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Venkatachary et al's inventive concept to include Sprague et al inventive concept of determining from the security information if the user has necessary access privilege to access the encrypted data portion and decrypting the encrypted data portion only after the user is determined to have the necessary access privilege to access the encrypted data portion because this would have ensured the information transmitted, received and/or stored by the system remains secure against unauthorized use and unlawful access.

As per claim 32, Venkatachary et al teach a method further comprising retrieving a user key associated with a user making the request (see paragraphs 0011-0015, 0038, 0063-0069, 0076).

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29. As per claim 33, Venkatachary et al teach a method wherein said determining from the security information if the user has necessary access privilege comprises decrypting the security information with the user key; retrieving access rules from the security information; and measuring the access rules against the access privilege of the user (see paragraphs 0011-0015, 0038, 0063-0069, 0076).

- 30. As per claim 34, Venkatachary et al teach a method further comprising retrieving a file key from the security information if the measuring of the access rules against the access privilege succeeds (see paragraphs 0011-0015, 0038, 0063-0069, 0076)
- 31. As per claim 35, Venkatachary et al teach a method further comprising causing the client machine to display an error message to the user if the measuring of the access rules against the access privilege fails (see paragraphs 0011-0015, 0038, 0063-0069, 0076)
- 32. As per claim 36, Venkatachary et al teach a method wherein the retrieving of the user key comprises establishing a link with a server executing an access control management; sending to the server an authentication request including an identifier identifying the user for the access control management to authenticate the user forwarding the header to the server; and receiving a file key retrieved from the header (see paragraphs 0011-0015, 0038, 0063-0069, 0076).

33. As per claim 37, Venkatachary et al teach a method of activating a cipher module and decrypting the encrypted data portion by the cipher module with the received file key (see paragraphs 0011-0015, 0038, 0063-0069, 0076)

- 34. As per claim 38, Venkatachary et al teach a method comprising loading the decrypted data portion into the application (see paragraphs 0011-0015, 0038, 0063-0069, 0076)
- As per claim 39, Venkatachary et al teach a method wherein the retrieving of the user key comprises establishing a link with a server executing an access control management; sending to the server an authentication request including an identifier identifying the user for the access control management to authenticate the user, receiving an authentication message after the user is authenticated; and activating the user key locally in the client machine (see paragraphs 0011-0015, 0038, 0063-0069, 0076).
- As per claim 40, Venkatachary et al teach a method wherein the user key is in an illegible format before the activating of the user key locally in the client machine (see paragraphs 0011-0015, 0038, 0063-0069, 0076)
- 37. Claims 6-9, 26 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Venkatachary et al (U.S. PG Pub No. 2004/0215956) in view of Sprague et al (U.S. PG Pub No. 2002/0129235). in further view of Ozog et al (U.S. PG Pub 2003/0033528).

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39. As per claim 6-9, 26 and 27, the combination of Venkatachary et al and in view of Spragueto et al fails to teach a method wherein parameters determining the rules from the graphic user interface are subsequently expressed in a markup language uploaded to the client machine after the user is authenticated Extensible Access Control Markup Language selected from a group consisting of HTML, XML and SGML. However, Ozog et al teach a method wherein parameters determining the rules from the graphic user interface are subsequently expressed in a markup language uploaded to the client machine after the user is authenticated Extensible Access Control Markup Language selected from a group consisting of HTML, XML and SGML (see paragraph 0059, 0060, 0108, 0110, 0113). Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the combination of Venkatachary et al and in view of Sprague et al's inventive concept to include Ozog et al's a method wherein parameters determining the rules from the graphic user interface are subsequently expressed in a markup language uploaded to the client machine after the user is authenticated Extensible Access Control Markup Language selected from a group consisting of HTML, XML and SGML because this would have facilitate the viewing of the access rules.

38. As per claim 41-88, they disclose the same inventive concept as in claims 1-40, therefore, they are rejected under the same rationale.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Firmin Backer whose telephone number is (703) 305-0624. The examiner can normally be reached on Mon-Thu 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Trammell can be reached on (703) 305-9768. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-7687 for regular communications and (703) 305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

Firmin Backer
Primary Examiner

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November 3, 2004